

**OVERSIGHT REPORT
NORTH BRONSON INDUSTRIAL AREA
BRONSON, MICHIGAN**

K.5
3/15/01

10 April 2001

Prepared for:

U.S. Environmental Protection Agency
Region 5
Emergency and Remedial Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

EPA Region 5 Records Ctr.



274312

Work Assignment No.: 031-ROBE-051C
Document Control No.: RFW031-2A-AHXZ



Roy F. Weston, Inc.
Suite 500
750 East Bunker Court
Vernon Hills, IL 60061-1450
847-918-4000 • Fax 847-918-4055
www.rfweston.com

10 April 2001

Ms. Rosita Clarke, SR-6J
Work Assignment Manager
United States Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

U.S. EPA Contract No.: 68-W7-0026

Work Assignment No.: 031-ROBE-051C

Document Control Number.: RFW031-2A-AHXZ

Re: Oversight of Work for Pre-Design Studies
North Bronson Industrial Area Site
Bronson, Branch County, Michigan.

Dear Ms. Clarke:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the two-week oversight report for the Bronson North Industrial Area site in Bronson, Branch County, Michigan. The oversight report is for the period between 12 March through 27 March 2001.

The attached oversight report provides a summary of the daily observations, field logbook entries made by the WESTON® on-site representative, and photodocumentation of field activities.

If you have any questions please call me at 847-918-4088.

Very truly yours,

ROY F. WESTON, INC.

Richard A. Swearingen, P.E.
Site Manager

cc: Eric Chatterson

I:\WO\RAC\031\29931-LTR.WPD

RFW031-2A-AHXZ

This document was prepared by Roy F. Weston, Inc. expressly for U.S. EPA in accordance with U.S. EPA Region V Response Action Contract (RAC)-U.S. EPA Contract No. 68-W7-0026 and contains confidential business information. It shall not be released or disclosed in whole or in part without the express, written permission of U.S. EPA.



**OVERSIGHT OF PRE-DESIGN STUDIES WORK
BRONSON NORTH INDUSTRIAL AREA SITE
BRONSON, BRANCH COUNTY, MICHIGAN
12 MARCH – 27 MARCH 2001**

This report summarizes the field oversight of pre-design studies work by ARCADIS (Geraghty and Miller) at the Bronson North Industrial Area Site, in Bronson, Michigan. A Roy F. Weston, Inc. (WESTON®) Geologist provided oversight support on 5 of the 10 possible workdays. Photodocumentation of oversight observations is attached to this report.

Field activities at the Site were performed with the purpose of addressing the requirements outlined in the Consent Decree filed in United States District Court for the Western District of Michigan, Southern Division, United States of America vs. Bronson Plating Company, et. Al., entered on 29 February 2000. The data collected during the field activities will be utilized in conjunction with data previously obtained during the Remedial Investigation (RI) to execute an appropriate Remedial Design (RD) and implement the Remedial Action (RA) for the Site, as required in the Record of Decision (ROD).

12 March 2001

Tuesday

Weather: 33° F and drizzle

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Randy Radke	Boart Longyear	Driller
Randy Secord	Boart Longyear	Drillers Helper

On 12 March 2001, ARCADIS organized equipment and calibrated instruments for one team of field personnel. Air monitoring equipment included Draeger tubes and a FID meter. The FID (OVA) meter was calibrated to 100 ppm methane.

ARCADIS surges and purges MW-23 using a new surge block with a rigid handle. Air monitoring was observed at MW-23 when WESTON oversight personnel were present. No deficiencies were noted in regards to following the approved Work Plan.

Completed field tasks at the end of the day included the following:

Monitoring Wells Developed

- MW-23

Additional site concerns:

None

13 March 2001

Wednesday

Weather: 38° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	<i>Project Geologist</i>
John Keeler (field team leader)	ARCADIS	Scientist II
Randy Radke	Boart Longyear	Driller
Randy Secord	Boart Longyear	Drillers Helper

On 13 March 2001, ARCADIS organized equipment and calibrated instruments for one team of field personnel. Air monitoring equipment included Draeger tubes and a FID meter. The FID (OVA) meter was calibrated to 100 ppm methane.

ARCADIS develops MW-33I in the morning, finishes development of MW-33S by noon. No deficiencies were noted in regards to following the approved Work Plan and no deviations from the HASP were noted.

Completed field tasks at the end of the day included the following:

Monitoring Wells Developed

- MW-33I
- MW-33S

Additional site concerns:

John Keeler of ARCADIS comments that some of the existing wells are constructed of galvanized steel, not PVC.

20 March 2001

Tuesday

Weather: 55° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II

On 20 March 2001, ARCADIS organized equipment and calibrated instruments for two teams of field personnel. MW-18 and MW-7S have been sampled prior to the arrival of WESTON personnel. Dave Buser is tasked with sampling MW-29 while Alec MacAdam is tasked with sampling MW-16S.

Air monitoring was observed at all well/soil boring locations where WESTON oversight personnel were present. Decontamination of all reusable measuring equipment between wells was observed at the wells where oversight was present. No deficiencies were noted in regards to following the approved Work Plan.

Completed field tasks at the end of the day included the following:

Monitoring Wells Sampled

- MW-18
- MW-7S

- MW-29
- MW-16S

Additional site concerns:

Kim Eichler (property owner) confronts WESTON personnel and requests a copy of the access agreement that he signed. Dave Buser of ARCADIS tells Mr. Eichler that he will have his office send Mr. Eichler a copy.

21 March 2001

Wednesday

Weather: 50° F and fair conditions

**WESTON oversight not present - the following information was obtained from*
*discussions with ARCADIS personnel on March 22, 2001.***

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II
Chuck Graff	MDEQ	Geologist
Debbie Larsen	MDEQ	Supervisor

On March 21, 2001, ARCADIS personnel were on site. Based on discussions with site personnel the following day (22 March 2001), no deviations from the Work Plan were identified.

Low-flow groundwater sampling at MW-32S and MW-34S was conducted in the morning, and MW-32I and MW-34I were sampled in the afternoon. All four wells were sampled for wetland parameters. All samples collected on 20 March and 21 March 2001 were shipped to STL Laboratories in North Canton, Ohio by FedEx Overnight Courier from Battle Creek, MI.

Completed field tasks at the end of the day included the following:

Monitoring Wells Sampled

- MW-32S
- MW-34S
- MW-32I
- MW-34I

Additional site concerns:

None

22 March 2001

Thursday

Weather: 50° F and sunny conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Hemang Shah	WESTON	Project Engineer
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II

On 22 March 2001, ARCADIS and WESTON personnel were on site. Based on discussions with site personnel with regards to 21 March 2001 no deviations from the Work Plan were identified.

The day's activities consisted of monitoring well sampling and slug testing. During the sampling of MW-28, several difficulties were encountered by ARCADIS personnel. At first the peristaltic pump would not start, however, after several tries the pump started but the turbidity readings of the pumped groundwater were high. The turbidity was also high at MW-15S. Both wells were monitored and were reportedly not sampled until the turbidity of the groundwater was within the established parameters. (WESTON personnel were not onsite when MW-28 and MW-15S were finally sampled).

During groundwater sampling activities, ARCADIS personnel were made aware of the general protocol which calls for turning off vehicle engines during the collection of samples for VOC analysis.

The first slug test at MW-34S failed. A second slug test was then performed and the results were satisfactory. The slug test was initiated by dropping a solid slug into the well and recording the initial elevation of groundwater displaced by the slug and then recording the change in groundwater elevation as the aquifer returned to equilibrium with the well. An In-Situ Hermit datalogger was utilized in conjunction with a pressure transducer for the recording of water levels during slug testing. Upon reaching equilibrium, at the end of the falling head test, the slug was removed causing a negative displacement of groundwater thereby initiating the rising head phase of the slug test. Groundwater elevations were recorded during the rising head test until equilibrium between the well and the aquifer was reached thereby terminating the test.

WESTON noted no deviations from the Work Plan or HASP.

Completed field tasks at the end of the day included the following:

Monitoring Wells Sampled

- MW-8S
- MW-17S
- MW-17D
- MW-8D
- MW-31
- MW-28
- MW-15S

Slug Tests Completed

- MW-29
- MW-34S
- MW-34I

Additional site concerns:

None

23 March 2001

Friday

Weather: 50° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Hemang Shah	WESTON	Project Engineer
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II

On 23 March 2001, ARCADIS and WESTON personnel were on site. WESTON noted no deviations from the Work Plan or HASP.

Active tasks for the day included well sampling and slug testing. Calibration of the YSI field meter does not indicate proper results for Dissolved Oxygen (DO) concentration in the afternoon. ARCADIS personnel contacted the equipment rental personnel for assistance. After speaking with the rental personnel, ARCADIS changes the DO membrane and recalibrated the YSI.

Monitoring Wells Sampled

- MW-30
- MW-35S
- MW-35I
- MW-26
- MW-13D

Slug Test Completed

- MW-32S
- MW-32I

Additional site concerns:

None.

24 March 2001

Saturday

WESTON oversight not present - the following information was obtained from
discussions with ARCADIS personnel.

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II

On 24 March 2001, ARCADIS personnel were on site. The day's activities included well sampling.

Additional site concerns:

None.

25 March 2001

Sunday

WESTON oversight not present - the following information was obtained from
discussions with ARCADIS personnel.

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II

On 25 March 2001, ARCADIS personnel were on site. The day's activities included well sampling.

Additional site concerns:

I:\WQ\RAC\031\29931-RPT.WPD

RFW031-2A-AHXZ

This document was prepared by Roy F. Weston, Inc. expressly for U.S. EPA in accordance with U.S. EPA Region V Response Action Contract (RAC)-U.S. EPA Contract No. 68-W7-0026 and contains confidential business information. It shall not be released or disclosed in whole or in part without the express, written permission of U.S. EPA.

None.

26 March 2001

Monday

WESTON oversight not present - the following information was obtained from
discussions with ARCADIS personnel.

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II

On 26 March 2001, ARCADIS personnel were on site. The day's activities included well sampling.

Additional site concerns:

None.

27 March 2001

Tuesday

WESTON oversight not present - the following information was obtained from
discussions with ARCADIS personnel.

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Alec MacAdam	ARCADIS	Scientist II

On 27 March 2001, ARCADIS personnel were on site. The day's activities included well sampling.

Additional site concerns:

None.

Photodocumentation



Well development of MW-23.



Well development of MW-23.



Water level measurement at MW-29.



Monitoring well sampling at MW-17 D/S.



Monitoring well sampling at MW- 32.



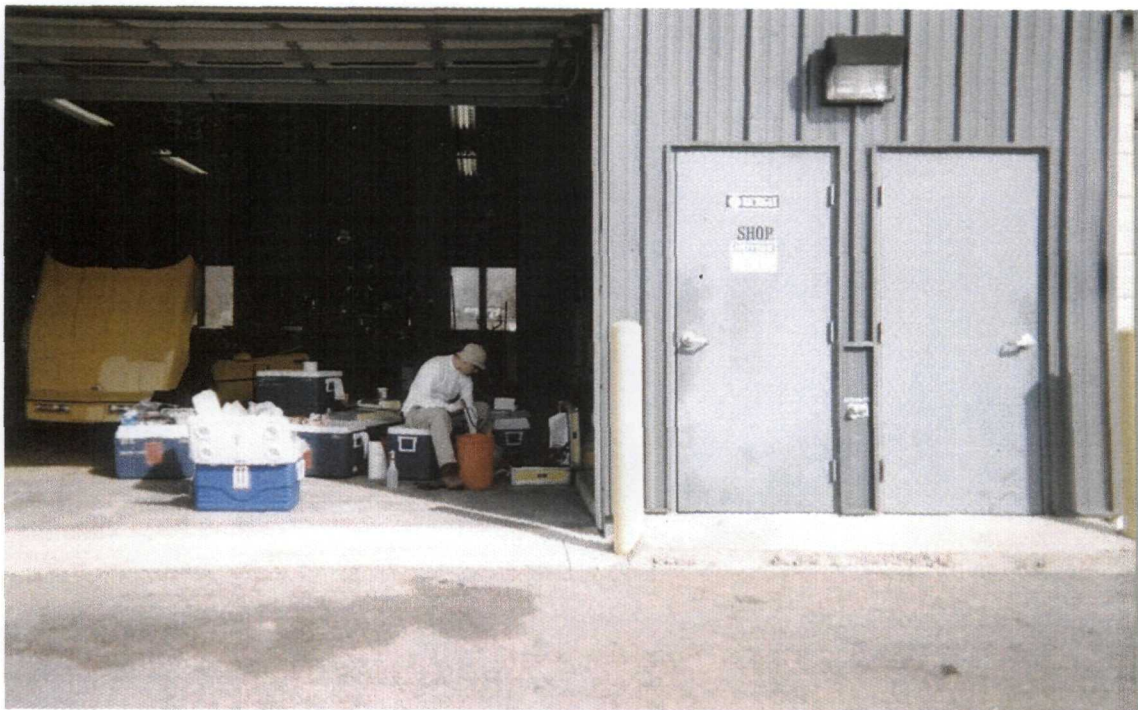
Purging of well MW- 35 S/I.



Slug testing at MW-6.



Decontamination of low-flow pump.



Decontamination of field equipment.



Decontamination of water level indicator.

Field Log



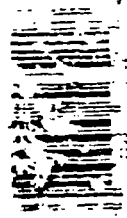
AVERY®

White Paper

Made in U.S.A.

200 PAGE 5 5/8" X 8 1/4"

RECORD BOOK



TUESDAY
6-MARCH-01
ERIC CHATTERSON

PINK
FAIR

- 1400 ON SITE W/
BOAT LINGER 1 DRIVER MEER
J.K. (ARCADIS)
O.B. (ARCADIS) MW 12 S/O
- 1500 ARCADIS DEVELOPING 1-4-123 S/O
- 1530 DISCUSS BAILING METHODS &
SUGGEST TRYING 2 RIGID ROD
FOR THE SURGE BLOCK TO
INCREASE POSITIVE PRESSURE
WHILE SURGING. J.K. STATES
HE WILL CONSTRUCT A RIGID
ROD SYSTEM FOR THE REMAINING
WELLS
- 1540 TALK TO (RS) RICK SWEARINGEN (WESTON)
ABOUT FIELD PROGRESS, CONCERNS
ETC.
- 1600 CALL R.S. FOR CONFERENCE
CALL W/ RUSITA - SHE'S
NOT IN SO R.S. LEAVES
A MESSAGE,
- 1700 OFFSITE AFTER DISCUSSION
ON SCHEDULE WITH ARCADIS
- ARCADIS WILL BE ON SITE
MONDAY 3-12-01 (MOB DAY) &
BEGIN WORK TUESDAY 3-13-01
JOHN KALER SAYS HE'LL HAVE
A SPLID ROD FOR A SURGE
BLOCK HANDLE ON TUESDAY AS
REQUESTED BY MEER
- 2-6-01

TUESDAY
12-MARCH-01
ERIC CHATTERSON

330 F
DRIZZLE

- 1315 ON SITE
- 1330 ON SITE ARE
JOHN FELDER ARCADIS
RANDY RABKE BOAT LINGER
RANDY SECORD BOAT LINGER
ARCADIS IS SURGING 1 PERMAN
MW-23 - THEY ARE USING A
NEW SURGE BLOCK WITH A
RIGID HANDLE -
- DEVELOPMENT IS GOING AS
EXPECTED WITH NO DEFICIENCIES
NOTED - AIR MONITORING
EQUIPMENT ON SITE - OVA 2
DIAPHRAGM TUBES

SC

3-12-01

WEDNESDAY

13-MARCH-01

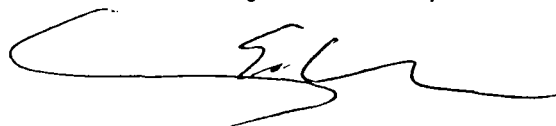
ERIC CHATTERSON

38°F

FAIR

- 0830 ON SITE - LOCATE ARCADIS -
THECKE @ MW 33 S/I TALK
TO JOHN KELLER - THEY WILL
BE DONE DEVELOPING BY 2 NOW
THE COMMENTS THAT SOME OF
THE EXISTING WELLS ARE
GALVANIZED STEEL & NOT PVC,
THEY THOUGHT ALL WELLS
WERE PVC
- 1000 FINISH DEVELOPMENT OF
MW 33 I & BEAM MW 33 S
- 1030 ALMOST FINISH WITH
MW 33 S - NO ADDITIONAL CONCERN
- OFF SITE

- NOTES FOR 13-MAR-01
ARCADIS - JOHN KELLER
BARTONWELL - RANDY RANKE
RANDY SEWARD
- AIR MONITORING EQUIPMENT
WAS OVA & DRAPER NBS
 - ALL HAZP NBS WERE
FOLLOWED AS PUT IN HAZP
 - NO TECHNICAL DEFICIENCIES
WERE NOTED
 - OTHER THAN THE GALVANIZED
WELLS, NO ADDITIONAL
SITE CONCERNS WERE
NOTED.
- 13-MAR-01



TUESDAY

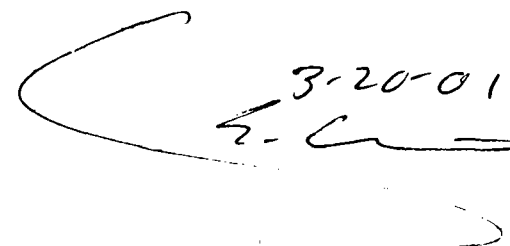
20-MARCH-01

ERIC CHATTERSON

55°F

FAIR

- 1430 ON SITE - ARCADIS CALIBRATING EQUIPMENT
ARCADIS IS
JOHN KELLER
ALEX MACADAM
DAVE BUSER
- * SAMPLED MW 18 & MW 75
WITH WETLAND TESTING
- 1500 JOHN KELLER LEAVES FOR FEDEX
DELIVERY - DAVE BUSER TO SAMPLE
MW 29, ALEX MACADAM TO SAMPLE
MW 165
- 1535 SPEAK TO KIM EICKER - HE
REQUESTS A COPY OF THE
ACCESS AGREEMENT HE
SIGNED - DAVE BUSER SAYS
HE'LL HAVE HIS OFFICE
SEND MR EICKER A COPY
- 1730 DAVE IS SAMPLING MW-29
- 1735 ALEX M. ARRIVES @ MW-29
HE HAS FINISHED SAMPLING
MW 165 -
- NO ADDITIONAL CONCERN
- 1740 - OFF SITE

3-20-01


Wednesday
3/21/01.

- (Notes taken by Hemang M. Shah of Ray F. Weston, Inc. from verbal description by John Keller of Arcadis Geraghty & Miller.)
- * Low flow groundwater sampling of MW-32S and MW-34S was conducted by Dave Buser and Alec MacAdam (both from Arcadis) in the morning hours at the site.
 - * Low flow CW sampling of MW-32I and MW-34I was conducted by Arcadis in the afternoon hours.
 - * All 4 wells (MW-32S, MW-34S, MW-32I, and MW-34I) were sampled for wetland testing parameters (TCL, VOCs, dissolved TAC metals, Total TAC metals, nitrate-nitrite, total cyanide, hardness, total alkalinity, BOD, COD, ortho-phosphate, sulphate, chloride, ammonia, nitrogen (KJADAHN), TOC, and total phosphorus.)
 - * All samples collected on 3/20/01 and 3/21/01 were shipped to STL Laboratory in N. Canton, Ohio, by FedEx Priority overnight in Battle Creek.
 - * Chuck Crotty and his supervisor ^{David} ~~Robert~~ Larsen of State of Michigan-Superfund Section, ERD (Lansing office) were on-site from approximately 11am to 5pm to oversee groundwater sampling activities.

Thursday

3/22/01

Hemang Shah.

50°F, sunny
bright, breezy.

- 0945 Dave Buser (Arcadis) completed sampling of MW-8S.
- 1045 ON-SITE - (Hemang M. Shah of Ray F. Weston, Inc.) met Alec MacAdam of Arcadis (Novi, MI) is in the process of sampling MW-17-S & D.
- 1110 Groundwater sampling of MW-8D is in progress by Dave Buser. Photographs of CW sampling at MW-17-S & D, and MW-8D were taken. John Keller of Arcadis Geraghty & Miller briefed Hemang regarding site activities of 3/21/01.
- 1130 CW sampling (low flow with peristaltic pump) is in progress by Dave Buser. Dave Buser, Alec MacAdam, and John Keller - Arcadis G&M personnel are on site.
- 1225 CW sampling of MW-8D completed. Dave Buser sampled CW from MW-8S in the morning hours for wetland parameters.
- 1230 Alec MacAdam is in the process of sampling CW from MW-17D. Alec completed CW sampling from MW-17S in the morning hours.
- 1255 John is in the process of starting slug test preparation.
- 1330 Dave is busy with calibration of equipment in addition to decom before starting CW sampling at MW-31.
- 1410 John completed slug test on MW-29. John will be conducting another slug test at MW-34S & I.
- 1425 Alec is in the process of CW sampling at MW-17D. Field and ~~test~~ ^{lab} equipment blank.
- 1445 Slug test on MW-34S is in progress.
- 1505 Slug test failed on MW-34S. Restarted slug test on MW-45.
- 1509 Field & equipment blank sample collection is in progress.
- 1540 Equipment blank sample collection is in progress by Alec.
- 1610 CW sampling of MW-31 completed by Dave.
- 1645 Dave Buser is in the process of starting CW sampling

- at MW-28. A general protocol of turning vehicle engine off while collecting and sample for VOC analysis was conveyed to Dave Buser.
- 1645 Peristaltic pump (Dave Buser) did not start functioning. After a few attempts to make it run, Dave started packing up.
- 1659 Alec completed equipment blank sample collection. YSI calibration in progress by Alec. John completed the slug test on MW-34I.
- 1715 Equipment down & calibration in progress by Alec. John got the peristaltic pump started for Dave Buser.
- 1730 Alec is in process of setting up equipment for CW sampling at MW-35S and MW-28 CW sampling equipment is set up by Dave Buser.
- 1800 All parameters (pH, conductivity, etc.) are stabilizing within range at MW-28 except turbidity. MW-35S groundwater sample indicated high turbidity to start with.
- 1835 Both MW-35S and MW-28 CW samples indicated gradually decreased turbidity - not yet ready to be sampled. ARCADIS personnel will continue monitoring turbidity & all other parameters till they are within sample collection range. ARCADIS personnel will collect CW samples from MW-35S and MW-28 at that point.
- 1840 Hemang left the site.
- 1930 (from verbal description by John Keller) ARCADIS personnel completed CW sampling from MW-28 and MW-35S and after calibration, down of equipment left the site by 200 hrs.

3/23/01

Friday
3/23/01
Hemang M. Shah.

21
50° sunny
fair conditions

- 0730 Equipment calibration was performed by ARCADIS personnel - Dave Buser and Alec MacAdam.
- 0830 Dave Buser started setting up for CW sampling at MW-~~28~~³⁰ and Alec MacAdam started setting up for CW sampling at MW-35-S & I. John Keller is in the process of packing coolers with sample containers from 3/22/01 for shipment (Sat. delivery).
- 0910 MW-30 CW parameter testing is in progress by Dave Buser.
- 0930 MW-35S CW parameter testing (temp, sp. cond, pH, etc.) is in progress by Alec. Turbidity is in the range of 5-6.
- 0953 Subsequent to stabilization of required parameters within the range, CW sampling was started at MW-35S by Alec with peristaltic pump.
- 1015 CW sampling at MW-30 completed by Dave Buser.
- 1030 After down of equipment, and a lunch break, Dave would start setting up for CW sampling on MW-26 followed with duplicate, field blank, equipment blank, and on-site samples.
- 1040 Alec setup his equipment after a quick field down on MW-35I. John finished his cooler packing with ice bags and sample containers to be picked up by FedEx for Saturday morning delivery at STL labs in North Canton, Ohio.
- 1110 CW parameter field testing is in progress at MW-35I.
- 1150 Sample container labels are prepared for MW-26 by John. Dave Buser is at a short lunch break.
- 1215 CW parameter testing at MW-35I is in progress by Alec.
- 1255 CW sampling is in progress at MW-35I by Alec.
- 1320 Calibration of YSI is in progress by Dave - DO calibration is not indicating proper results. Dave is contacting equipment rental personnel for feedback.
- 1400 Alec completed CW sampling at MW-35I and broke for lunch. John is in the process of conducting a slug test at MW-32S. John conducted the slug test on MW-32S for three times to

check the accuracy of the results. However, he received the same result/output —————

1422 John is setting up slug test at mw-32I. He decontaminated the slug test equipment before setting it up at mw-32I —————

1430 Dave Ouser is in the process of changing the DO membrane in YSI meter & then recalibrate YSI.

1500 Alec is back from lunch-decon and equipment calibration is in process by Alec. John is conducting slug test at mw-32I —————

1520 John completed the slug test at mw-32I and decontaminated slug test equipment —————

1530 Dave Ouser started setting up and sampling and field parameter testing equipment at mw-26 —————

1540 John left the site for supplies purchase and intended not to return today —————

1545 Alec is in the process of calibrating his YSI after decontaminating his field sampling equipment —————

1550 Henry left the site. John will return to the site on 3/24/01. Alec will start and sampling at mw-130 after field parameter stabilization —————

3/20/01.